



Australian Government

MSMRVS202 Repair/service LPG systems in a recreational vehicle

Release: 1

MSMRVS202 Repair/service LPG systems in a recreational vehicle

Modification History

Release 1. Supersedes and is equivalent to MSARVS202A Repair/service LP gas systems in a recreational vehicle

Application

This unit of competency covers the skills and knowledge required to repair liquid petroleum gas (LPG) systems in a recreational vehicle. It applies to those working in a servicing agency or in the service section of a manufacturing enterprise.

The unit requires the determination of requirements and the repair or service of LPG systems with an operating pressure not exceeding 2.75 kPa in a recreational vehicle.

The operator will be required to work to procedures, and follow plans/specifications, insurance requirements and customer needs.

This unit of competency applies to an individual working alone or as part of a team/work group and working in liaison with other shift team members.

This unit of competency applies to those who are responsible for recreational vehicle servicing. It applies only where relevant state/territory licensing requirements permit the repair and service of LPG systems in a recreational vehicle. Licensing requirements by state/territory and national authorities may vary.

No other licensing, legislative or certification requirements apply to this unit at the time of publication. Check local regulations.

Pre-requisite Unit

Nil

Competency Field

Operations

Unit Sector

Elements and Performance Criteria

Elements describe the essential outcomes

Performance criteria describe the performance needed to demonstrate achievement of the element

- 1 Identify repair requirements**
 - 1.1 Identify or verify service or repair needs to LPG system, including insurance requirements and customer needs
 - 1.2 Access and interpret working drawings, plans and job specifications according to model and type of recreational vehicle
 - 1.3 Select tools and equipment to meet the job requirements and check them to ensure they are working safely
 - 1.4 Identify any safety hazards associated with the job and use appropriate personal protective equipment (PPE)

- 2 Assess the system**
 - 2.1 Identify and adhere to quality assurance requirements for repair or service
 - 2.2 Assess storage capacity and regulator size to ensure they are adequate for the load and do not exceed regulatory requirements and standards
 - 2.3 Ensure that piping and ventilation used comply with regulatory requirements and standards
 - 2.4 Evaluate the system's piping size to ensure it is appropriate for the dimensions and loads
 - 2.5 Check to ensure that size used for main run and branches provides minimum inlet pressure to each appliance in accordance with regulatory requirements and standards
 - 2.6 Check the set-out of the piping system to ensure correct position for appliances and cylinders and compliance with regulatory requirements and standards

- 3 Plan and prepare the job**
 - 3.1 Plan all necessary and appropriate tasks in conjunction with others involved in or affected by the work
 - 3.2 Inform appropriate authorities of planned work and obtain and submit work notices, where required
 - 3.3 Estimate and order any required materials, equipment and appliances for the job and organise delivery
 - 3.4 Check materials, equipment and appliances delivered against the order form or delivery docket to ensure they

- correspond and are in an acceptable condition
- 3.5 Identify and select appropriate tools and equipment for the repair/service
- 3.6 Use appropriate PPE and read and interpret any safety information relevant to the job
- 4 **Service/repair system**
- 4.1 Service system, repair fault or install appliance in accordance with job requirements, standards and manufacturer specifications
- 4.2 Repair piping system in accordance with job requirements and standards
- 4.3 Position appliances to ensure adequate air supply and ventilation in accordance with job requirements and standards
- 4.4 Locate and check consumer instruction plates, labels and compliance plates to ensure they comply with regulatory requirements and standards
- 5 **Test the system**
- 5.1 Adjust regulator to provide flow pressure in accordance with standards and enterprise requirements
- 5.2 Select test equipment which is appropriate for the work
- 5.3 Test the system, including ventilation, in accordance with standards and enterprise requirements
- 5.4 Adjust the system to provide the required flow pressure in accordance with standards and enterprise requirements
- 5.5 Record test data in the format required by relevant regulatory and enterprise requirements
- 6 **Complete the job**
- 6.1 Assess work against the requirements of the job
- 6.2 Assess quality of the total job in accordance with enterprise standards and requirements
- 6.3 Complete all required paperwork for both customer and

enterprise records

6.4 Complete required clean-up procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Regulatory framework

The latest version of all legislation, regulations, industry codes of practice and Australian/international standards, or the version specified by the local regulatory authority, must be used, and include one or more of the following:

- legislative requirements, including work health and safety (WHS)
- industry codes of practice and guidelines
- environmental regulations and guidelines
- Australian and other standards
- licence and certification requirements

Procedures

All operations must be performed in accordance with relevant procedures.

Procedures are written, verbal, visual, computer-based or in some other form, and include one or more of the following:

- work instructions
- standard operating procedures (SOPs)
- safe work method statements (SWMS)
- temporary instructions
- any similar instructions provided for the smooth running of the plant

Hazards

Hazards include one or more of the following:

- heat, dust or other atmospheric hazards
- electricity

- gas
- equipment failures
- industrial (machinery, equipment and product)
- noise, rotational equipment or vibration
- hazardous products and materials
- unauthorised personnel
- sharp edges, protrusions or obstructions
- slippery surfaces, spills or leaks
- other hazards that might arise

Routine problems

Routine problems must be resolved by applying known solutions.

Routine problems are predictable and include one or more of the following:

- equipment/plant/machine malfunction
- variations in process conditions
- variations in materials or contamination of materials
- equipment, tool, die or mould damage
- product faults
- tooling problems

Known solutions are drawn from one or more of the following:

- procedures
- training
- remembered experience

Non-routine problems must be reported according to relevant procedures.

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=d1287d36-dff4-4e9f-ad2c-9d6270054027>

Assessment Requirements for MSMRVS202 Repair/service LPG systems in a recreational vehicle

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy the requirements of the elements and performance criteria and demonstrate the ability to:

- assess and plan LPG system service and/or repair in at least three (3) recreational vehicles
- service and/or repair and test an LPG system in at least three (3) recreational vehicles
- interpret requirements and plan work
- identify hazards and apply relevant hazard controls
- recognise situations requiring action and take the appropriate action
- communicate effectively with team/work group and supervisors.

Knowledge Evidence

Evidence must be provided that demonstrates knowledge of:

- hazards that may arise in the job/work environment and subsequent use of the LPG system, including gas properties and hazards, and combustion principles
- allowable cylinders, regulators, fittings and pressures
- determination of system capacity and size for requirements
- piping system design for requirements
- service/repair procedures and the reasons for those procedures
- materials and tools to be used and their correct usage
- checks and adjustments to be made
- relevant regulatory requirements.

Assessment Conditions

- The unit should be assessed holistically and the judgement of competence based on a holistic assessment of the evidence.
- The collection of performance evidence:
 - should occur over a range of situations which include typical disruptions to normal, smooth operation

- will typically include a supervisor/third-party report or other evidence, focusing on consistent performance and problem recognition and solving. A supervisor/third-party report must be prepared by someone who has a direct, relevant, current relationship with the person being assessed and who is in a position to form a judgement on workplace performance relevant to the unit of competency
- may use industry-based simulation for all or part of the unit particularly where safety, lack of opportunity or significant cost is an issue.
- Assessment should occur in operational workplace situations. Where this is not possible, or where personal safety or environmental damage are limiting factors, assessment must occur in a sufficiently rigorous simulated environment reflecting realistic operational workplace conditions. This must cover all aspects of workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.
- Knowledge evidence may be collected concurrently with performance evidence (provided a record is kept) or through an independent process, such as workbooks, written assessments or interviews (provided a record is kept).
- Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.
- Conditions for assessment must include access to all tools, equipment, materials and documentation required, including relevant workplace procedures, product and manufacturing specifications associated with this unit.
- The regulatory framework will be reflected in workplace policies and procedures and is not required to be independently assessed.
- Foundation skills are integral to competent performance of the unit and should not be assessed separately.
- As a minimum, assessors must satisfy the Standards for Registered Training Organisations 2015 assessor requirements.

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